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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- (Previously presented): A method of producing a molecularly-imprinted material, 1. comprising:
 - (a) synthesizing a peptide on a disposable surface modified support to produce a support surface-attached peptide;
 - (b) providing a selected monomer mixture;
 - (c) contacting said monomer mixture with said support surface-attached peptide;
 - (d) initiating polymerisation or at least one crosslinking reaction;
 - (e) dissolving or degrading said support surface-attached peptide and said support; and
 - (f) obtaining said molecularly imprinted material.
- (Currently amended): A method according to claim 1, wherein said support surface-2. attached peptide of step (a) (c) is a peptide epitope.
- (Currently amended): A method according to claim I, wherein step (d) (f) is 3. conducted with the aid of at least one factor consisting of crosslinking agents, heat, and ultraviolet irradiation.
- (Currently amended): A method according to claim 1, wherein said peptide comprises 4. at least one amino acid and is selected from the group consisting of FMOC-Phe-Gly-Si, H-Phe-Gly-Si, FMOC-Phe-Si, BOC-Gly-Si, H-Gly-Si, FMOC-Phe-Gly-OH, FMOC-Phe-OH, BOC-Phe-OH, H-Phe-pNA, H-Phe-O-Me, H-Phe-OtBu, BOC-Gly-OH, H-Phe-Gly-NH2, H-Phe-Gly-Gly-Phe-OH (SEO ID NO:1), FMOC-Phe-OH, H-Gly-Phe-OH, and Nociceptin.
- (Previously presented): A method according to claim 1, wherein said disposable 5. surface modified support is modified silica or controlled pore glass (CPG).

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- 6. (Original): A method according to claim 1, wherein said monomer mixture comprises monomers selected from the group consisting of styrene/divinyl benzene, methacrylates, acrylates, acrylamides, methacrylamides and combinations thereof.
- 7. (Withdrawn): A method of using a molecularly-imprinted material, comprising:

 producing a molecularly-imprinted material according to claim 1; and

 using said molecularly-imprinted material as an affinity phase for the separation of
 biological macromolecules or oligomers.
- 8. (Withdrawn): A method according to claim 7, wherein said biological macromolecules or oligomers are selected from the group consisting of peptides, polypeptides, oligopeptides, proteins, nucleic acids, oligonucleotides, polynucleotides, saccharides, oligosaccharides, and polysaccharides.
- 9. (Withdrawn): A chromatographic stationary phase, comprising a molecularly imprinted material produced according to claim 1, wherein said peptide, oligosaccharide or oligonucleotide of step (c) is selected from the group consisting of FMOC-Phe-Gly-Si, H-Phe-Gly-Si, FMOC-Phe-Gly-Si, H-Gly-Si, FMOC-Phe-Gly-OH, FMOC-Phe-OH, BOC-Phe-OH, H-Phe-PNA, H-Phe-O-Me, H-Phe-OtBu, BOC-Gly-OH, H-Phe-Gly-NH₂, H-Phe-Gly-Gly-Phe-OH, FMOC-Phe-OH, and H-Gly-Phe-OH, and Nociceptin.